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## AMENDMENTS TO THE CLAIMS

1. (Currently amended) A method for the determination of the resistance of cells versus the action of an active substance comprising:

- (i) providing a sample containing cells exposed or having been exposed to said active substance,
- (ii) analyzing a gene expression pattern of said cells on a micro-array, said microarray comprising on specific locations thereon capture probes for specific detection and quantification of at least 5 ATP binding cassette (ABC) transporters, wherein said microarray contains capture probes to at least 5 ABC transporter subfamilies, and wherein said microarray is a low density microarray containing capture probes for the detection of up to 3000 genes,

wherein a change of the gene expression of said at least 5 ABC transporters by a factor of at least about 1.5 as compared to a reference is indicative of the development and/or existence of resistance of said cells to the substance.

- 2. **(Original)** The method of claim 1, wherein said analyzing of gene expression pattern is for at least 5, 10, 39 and 49 ABC transporters selected from those listed in Table 1.
- 3. (Currently amended) The method of claim 1, wherein said analyzing of gene expression pattern for at least 5 genes of the ABC transporter family having unravelled multi-drug resistance function as are selected from the genes provided in Table 1.
- 4. **(Original)** The method of claim 1, wherein said resistance of cells is resistance of cells from a patient to the chemotherapy by a given drug.
- 5. **(Original)** The method of any one of claim 1, wherein said drug is selected from Table 3.
- 6. (Original) The method of claim 1, wherein said cells are incubated in the presence of said drug.
- 7. (Currently amended) The method of claim 6, wherein the cells are derived from a patient and wherein said method is designed <u>for</u> the determination of a potential active drug for the patient treatment.
- 8. **(Original)** The method of any one of claims 1, 2, or 3, further comprising determining an activity of said drug against said cells.

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9. **(Original)** The method of any one of claims 1, 2, or 3, further comprising selecting of an active drug for patient treatment.

- 10. (Original) A method for monitoring a patient treated with a drug for chemotherapy, comprising the method of any one of claims 1, 2, or 3, wherein said drug is for chemotherapy.
- 11. **(Original)** The method of claim 1, wherein the micro-array contains at least one gene selected from Kir6.1, Kir6.2 and IMPT.
- 12. (Currently amended) The method of claim 1, wherein said said sample containing cells is from acute myeloid leukemia.
- 13. **(Original)** The method of claim 1, wherein said sample containing cells is from acute lymphocytic leukemia.
- 14. **(Original)** The method of claim 1, wherein said sample containing cells is from solid tumors.
- 15. (Original) The method of claim 1, wherein said capture probes are single-stranded nucleotides
- 16. **(Original)** The method of claim 1, wherein each one specific location gives the quantification of one ABC transporters gene.
- 17. (Withdrawn) A kit, comprising an array with capture probes located at specific locations for the detection and quantification of the gene expression of at least 5 ABC transporters.